

EXPRESS MAIL #ER 542452946 US

PATENT APPLICATION  
STC-02-0004 DIV

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Gopalakrishnan G. Juttu  
Robert Scott Smith

For: Catalyst for Aromatization of Alkanes, Process of Making and  
Using Thereof

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

The following are being submitted for this Information  
Disclosure Statement:

1. Preliminary Statements
2. Concise Explanation of Listed Information Items
3. Form PTO/SB/08A

This Information Disclosure Statement submitted herewith is  
being filed **WITHIN THREE MONTHS OF THE FILING DATE OF A NATIONAL  
APPLICATION** under 37 CFR §1.97(b)(1).

SERIAL NO. \_\_\_\_\_  
JUTTU, SMITH

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PRELIMINARY STATEMENTS

Pursuant to the provisions of 37 CFR §§1.97 et. seq., the Applicants submit the documents of which they are currently aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose. The filing of this Information Disclosure Statement shall not be construed as a representation that a search of the prior art was made, that an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists or as an admission against interest in any manner.

CONCISE EXPLANATION OF LISTED INFORMATION ITEMS

The documents identified on the attached form PTO/SB/08A are referenced in the Specification of the patent application as filed. This application relies under 35 USC §120 on the earlier filing date of prior application serial no. 10/213,313 filed on August 6, 2002. The following references were submitted to and/or cited by the Office in the prior application and are not required to be provided in this application:

U.S. Patent no. 6,160,191 issued December 12, 2000

U.S. Patent no. 3,329,480 issued July 4, 1967

U.S. Patent no. 3,329,481 issued July 4, 1967

U.S. Patent no. 4,208,305 issued June 17, 1980

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U.S. Patent no. 4,713,227 issued December 15, 1987  
U.S. Patent no. 5,179,054 issued January 12, 1993  
U.S. Patent no. 4,704,494 issued November 3, 1987  
U.S. Patent no. 5,456,822 issued October 10, 1995  
U.S. Patent no. 4,910,357 issued March 20, 1990  
U.S. Patent no. 5,124,497 issued June 23, 1992  
U.S. Patent no. 6,315,892 B1 issued November 13, 2001  
U.S. Patent no. 5,227,557 issued July 13, 1993  
U.S. Patent no. 4,036,741 issued July 19, 1977  
U.S. Patent no. 4,836,336 issued June 6, 1989  
U.S. Patent no. 4,590,322 issued May 20, 1986  
U.S. Patent no. 4,590,323 issued May 20, 1986  
U.S. Patent no. 4,705,907 issued November 10, 1987  
U.S. Patent no. 5,371,307 issued December 6, 1994  
Japanese Patent document no. 59-121115 published July 13, 1984  
"Zeolite Molecular Sieves", D.W. Breck, p. 320-331, John Wiley & Sons (1974)  
"Aromatization of Butane on Pt-Ge Intermetallic Compounds Supported on HZSM-5", T. Komatsu et al., 2000  
"Applied Catalysis A: General", vol. 194-195, p. 333-339 (2000)  
"Synthesis and Characterization of Ge-ZSM-5 Zeolites", H. Kosslick et al., J. Phys. Chem., vol. 97, p. 5678-5684 (1993)  
"EXAFS Study of Germanium-rich MFI-Type Zeolites", M.H. Tuilier et al., Zeolites, vol. 11, p. 662-665 (September/October, 1991)

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"Propane Transformation over H-ZSM-5 Zeolite Modified with Germanium", C. C. Salguero et al., Catalysis Letters, Vol. 47, p. 143-154 (1997)

The Examiner is requested to consider these documents and to indicate that these documents are made of record in the first Office Action.

FEE

The Commissioner is hereby authorized to charge any fees which may be required by filing this paper or credit any overpayment to Account No. 502025.

Respectfully submitted,



Jim Wheelington  
Reg. No. 33,051

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Sheet 1 of 2

Application Number	
Filing Date	
First Named Inventor	JUTTU
Art Unit	
Examiner Name	
Attorney Docket Number	STC-02-0004 DIV

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,160,191	12/12/2000	Smith et al.	
		US- 3,329,480	07/04/1967	Young	
		US- 3,329,481	07/04/1967	Young	
		US- 4,208,305	06/17/1980	Kouwenhoven et al.	
		US- 4,713,227	12/15/1987	Derouane et al.	
		US- 5,179,054	01/12/1993	Schipper et al.	
		US- 4,704,494	11/03/1987	Inui	
		US- 5,456,822	10/10/1995	Marcilly et al.	
		US- 4,910,357	03/20/1990	Dessau et al.	
		US- 5,124,497	06/23/1992	Dessau et al.	
		US- 6,315,892 B1	11/13/2001	Le Peltier et al.	
		US- 5,227,557	07/13/1993	Bournonville et al.	
		US- 4,036,741	07/19/1977	Pollitzer et al.	
		US- 4,836,336	06/06/1989	Schroder	
		US- 4,590,322	05/20/1986	Chu	
		US- 4,590,323	05/20/1986	Chu	
		US- 4,705,907	11/10/1987	Inui	
		US- 5,371,307	12/06/1994	Guth et al.	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		JP59-121115	07/13/841	Iino et al.		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(Use as many sheets as necessary)

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				<b>Filing Date</b>	
				<b>First Named Inventor</b> JUTTU	
				<b>Art Unit</b>	
				<b>Examiner Name</b>	
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b> STC-02-0004 DIV	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Zeolite Molecular Sieves" D. W. BRECK, p. 320-331, John Wiley & Sons (1974)	
		"Aromatization of butane on Pt-Ge intermetallilic compounds supported on HZSM-5" T. KOMATSU et al., (2000)	
		"Applied Catalysis A: General", vol. 194-195, p. 333-339 (2000)	
		"Synthesis and Characterization of Ge-ZSM-5 Zeolites", H. KOSSLICK et al., J. Phys. Chem., vol. 97, p. 5678-5684 (1993)	
		"EXAFS Study of Germanium-rich MFI-Type Zeolites", M. H. TUILIER et al., Zeolites, vol. 11, p. 662-665 (September/October, 1991)	
		"Propane Transformation over H-ZSM-5 Zeolite Modified with Germanium", C.C. SALGUERO et al., Catalysis Letters, vol. 47, p. 143-154 (1997)	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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